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Document: Project Report ATC-341, "Wind-Shear System Cost Benefit Analysis Update," dated 13 May 2009

Please add the attached pages (172 and 173) at the end of Appendix F in Project Report ATC-341.

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Wind Shear System	SJC	SJU	SLC	SMF	SNA	SPI	SRQ	STL	SUX	SYR	TLH	TOL	TPA	TRI	TUL	TUS
	NoWS	TDWR	TDWR	NoWS	NoWS	LLWAS	WSP	TDWR&L LLWAS	LLWAS	WSP	LLWAS	WSP	TDWR&L LLWAS	LLWAS	TDWR	WSP
TDWR	N/A	0.09	16.99	N/A	N/A	N/A	N/A	7.28	N/A	N/A	N/A	N/A	21.87	N/A	0.13	N/A
WSP	N/A	(3.51)	12.51	N/A	N/A	N/A	1.42	5.04	N/A	(0.14)	N/A	(0.44)	20.41	N/A	(1.68)	2.28
NEXRAD	(0.24)	(0.18)	3.33	1.11	(0.24)	(0.23)	2.08	9.00	(0.37)	(0.22)	0.32	(0.28)	24.37	(0.36)	1.90	0.29
LIDAR	(1.78)	(1.97)	10.66	(1.84)	(1.30)	(2.69)	(1.67)	1.62	(2.76)	(2.23)	(2.54)	(2.44)	5.31	(2.69)	(1.83)	(1.04)
LLWAS	(1.27)	(0.55)	8.38	(1.10)	(1.18)	(0.53)	(0.38)	4.31	(0.58)	(1.12)	(0.24)	(1.23)	15.37	(0.47)	(0.49)	0.15
X-Band	(5.42)	(4.35)	12.46	(4.96)	(4.71)	(6.29)	(4.05)	2.87	(6.41)	(5.61)	(5.78)	(5.93)	18.11	(6.24)	(4.30)	(2.75)
TDWR & NEXRAD	N/A	(0.15)	16.75	N/A	N/A	N/A	N/A	7.10	N/A	N/A	N/A	N/A	22.30	N/A	(0.09)	N/A
TDWR, NEXRAD, LLWAS	N/A	(1.48)	15.81	N/A	N/A	N/A	N/A	6.72	N/A	N/A	N/A	N/A	22.18	N/A	(1.44)	N/A
TDWR & LIDAR	N/A	(2.78)	15.75	N/A	N/A	N/A	N/A	4.45	N/A	N/A	N/A	N/A	19.66	N/A	(2.75)	N/A
TDWR & LLWAS	N/A	(2.53)	16.00	N/A	N/A	N/A	N/A	4.67	N/A	N/A	N/A	N/A	19.57	N/A	(2.51)	N/A
WSP & NEXRAD	N/A	(1.24)	16.05	N/A	N/A	N/A	N/A	6.92	N/A	N/A	N/A	N/A	22.00	N/A	(1.21)	N/A
WSP & LIDAR	N/A	(3.76)	12.26	N/A	N/A	N/A	1.29	5.47	N/A	(0.38)	N/A	(0.68)	20.85	N/A	(1.68)	2.04
WSP & LLWAS	N/A	(5.54)	13.84	N/A	N/A	N/A	(1.18)	2.89	N/A	(2.67)	N/A	(2.98)	18.02	N/A	(4.13)	(0.01)
WSP, NEXRAD, LIDAR	N/A	(4.12)	12.72	N/A	N/A	N/A	0.08	4.09	N/A	(1.46)	N/A	(1.76)	19.58	N/A	(2.97)	1.04
WSP, NEXRAD, LLWAS	N/A	(5.78)	13.60	N/A	N/A	N/A	(1.35)	2.92	N/A	(2.91)	N/A	(3.22)	18.23	N/A	(4.30)	(0.25)
NEXRAD & LIDAR	N/A	(4.36)	12.48	N/A	N/A	N/A	(0.05)	4.35	N/A	(1.70)	N/A	(2.00)	19.86	N/A	(3.01)	0.80
NEXRAD & LLWAS	(2.02)	(2.21)	10.42	(1.47)	(1.54)	(2.85)	(0.57)	6.47	(3.00)	(2.47)	(2.29)	(2.68)	21.78	(2.93)	(0.73)	(1.28)
X-Band & LIDAR	(0.72)	(0.46)	11.82	(0.18)	(0.25)	(0.67)	0.73	8.65	(0.80)	(1.14)	(0.10)	(1.36)	24.17	(0.68)	0.56	0.82
X-Band & LLWAS	(7.85)	(6.91)	11.32	(7.56)	(6.98)	(8.95)	(6.70)	0.30	(9.07)	(8.23)	(8.38)	(8.55)	15.54	(8.88)	(6.87)	(5.29)
TDWR, NEXRAD, LIDAR	(6.56)	(5.60)	12.31	(6.27)	(5.70)	(6.90)	(5.39)	1.64	(7.02)	(6.94)	(6.34)	(7.27)	17.11	(6.81)	(5.58)	(3.97)
Legacy Case (Upgraded)	0.00	0.09	16.99	0.00	0.00	(0.53)	1.42	6.92	(0.58)	(0.14)	(0.24)	(0.44)	22.00	(0.47)	0.13	2.28

Wind Shear System	TWF		TYS		Total
	NoWS	WSP	NoWS	WSP	
TDWR	N/A	N/A	N/A	N/A	861.07
WSP	N/A	(0.35)	N/A	(0.35)	703.31
NEXRAD	(0.24)	(0.27)	(0.24)	(0.27)	684.33
LIDAR	(2.42)	(2.52)	(2.42)	(2.52)	148.10
LLWAS	(1.30)	(1.22)	(1.30)	(1.22)	406.15
X-Band	(6.08)	(6.22)	(6.08)	(6.22)	47.30
TDWR & NEXRAD	N/A	N/A	N/A	N/A	858.84
TDWR,					
NEXRAD,					
LLWAS	N/A	N/A	N/A	N/A	817.14
TDWR & LIDAR	N/A	N/A	N/A	N/A	748.83
TDWR & LLWAS	N/A	N/A	N/A	N/A	757.31
WSP & NEXRAD	N/A	N/A	N/A	N/A	821.21
WSP & LIDAR	N/A	(0.59)	N/A	(0.59)	766.79
WSP & LLWAS	N/A	(2.97)	N/A	(2.97)	607.92
WSP,					
NEXRAD,	N/A	(1.70)	N/A	(1.70)	658.41
LIDAR					
WSP,					
NEXRAD,					
LLWAS	N/A	(3.21)	N/A	(3.21)	618.95
NEXRAD & LIDAR	N/A	(1.94)	N/A	(1.94)	691.55
NEXRAD & LLWAS	(2.66)	(2.76)	(2.66)	(2.76)	459.69
X-Band & LIDAR	(1.41)	(1.38)	(1.41)	(1.38)	766.49
X-Band & LLLWAS	(8.70)	(8.76)	(8.70)	(8.76)	(336.34)
TDWR,NEXRAD,LIDAR	(7.42)	(7.40)	(7.42)	(7.40)	(93.92)
Legacy Case (Upgraded)	0.00	(0.35)	0.00	(0.35)	902.02